

Title (en)  
ON-BOARD RECOVERY AND STORAGE OF CO2 FROM MOTOR VEHICLE EXHAUST GASES

Title (de)  
BORDEIGENE RÜCKGEWINNUNG UND LAGERUNG VON CO2 AUS KRAFTFAHRZEUGABGASEN

Title (fr)  
SYSTÈME EMBARQUÉ DE RÉCUPÉRATION ET DE STOCKAGE DU CO2 CONTENU DANS LES GAZ D'ÉCHAPPEMENT DE VÉHICULES AUTOMOBILES

Publication  
**EP 2665808 B1 20161207 (EN)**

Application  
**EP 12736347 A 20120120**

Priority  
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Abstract (en)  
[origin: WO2012100165A1] A method and system are described for on-board treatment of an exhaust stream containing CO2 emitted by a hydrocarbon-fueled internal combustion engine (ICE) used to power a vehicle, which include: contacting the exhaust gas stream with a CO2 capture agent on board the vehicle, the capture agent having a predetermined capacity to extract CO2 from the exhaust stream; discharging a treated exhaust gas stream having a reduced CO2 content into the atmosphere; discontinuing the contact of the exhaust gas stream with the capture agent when the concentration of the CO2 extracted by the capture agent has reached a predetermined level; heating the CO2 capture agent to release the extracted CO2 and regenerate the capture agent; recovering an essentially pure CO2 gas stream; compressing the recovered CO2 gas on board the vehicle to reduce its volume; and temporarily storing the compressed CO2 on board the vehicle.

IPC 8 full level  
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JP 2007177684 A 20070712 - EQUOS RES CO LTD

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